CONTENTS OF VOLUME VII

ORIGINAL CONTRIBUTIONS

ALLEN, M. DELIA. The Occurrence and Possible Significance of the "Shaking" of Honeybee Queens by the Workers 66

ALLEN, M. DELIA. The "Shaking" of Worker Honeybees by Other Workers 232

ALLEE, W. C. *see* FOREMAN, D.

BARTHOLOMEW, G. A. Mother-Young Relations and the Maturation of Pup Behaviour in the Alaska Fur Seal 163

BRADDOCK, J. C. & BRADDOCK, ZORA I. The Development of Nesting Behaviour in the Siamese Fighting Fish, *Betta splendens* 222

BRADDOCK, ZORA I. *see* BRADDOCK, J. C.

CLARK, R. B. The Tubicolous Habit and the Fighting Reactions of the Polychaete *Nereis pelagica* 85

DAVIS, D. E. Territorial Rank in Starlings 214

DELANY, M. J. Group Formation in the Thysanura 70

DEWITT, R. M., & SLOAN, W. C. Reproduction in *Physa pomilia* and *Helisoma duryi* .. 81

DOBSON, R. M. Preliminary Observations on the Behaviour of the Adult Wheat Bulb Fly, *Leptohylemyia coarctata* (Fall.) Using the "Field-Cage-Marking" Technique .. 76

DOWNING, B. M. *see* RANWELL, D. S.

DOYLE, G. & PRATT YULE, E. Grooming Activities and Freezing Behaviour in Relation to Emotionality in Albino Rats 18

EAYRS, J. T. The Status of the Thyroid Gland in Relation to the Development of the Nervous System 1

ELLIS, PEGGY E. Learning and Social Aggregation in Locust Hoppers 91

FOREMAN, D. & ALLEE, W. C. A Correlation Between Posture Stance and Outcome in Paired Contests of Domestic Hens 182

GOY, R. W. & JAKWAY, JACQUELINE S. The Inheritance of Patterns of Sexual Behaviour in Female Guinea Pigs 142

GRAUE, L. C. & PRATT, J. G. Directional Differences in Pigeon Homing in Sacramento, California, and Cedar Rapids, Iowa 201

GUITON, P. Socialisation and Imprinting in Brown Leghorn Chicks 26

HALE, E. B. *see* SCHEIN, M. W.

HINDE, R. A. Unitary Drives 130

HINDE, R. A. *see also* WARREN, ROSLYN P.

HINDE, R. A. & WARREN ROSLYN P. The Effect of Nest Building on Later Reproductive Behaviour in Domesticated Canaries 35

CONTENTS OF VOLUME VII

ORIGINAL CONTRIBUTIONS

ALLEN, M. DELIA. The Occurrence and Possible Significance of the "Shaking" of Honeybee Queens by the Workers 66

ALLEN, M. DELIA. The "Shaking" of Worker Honeybees by Other Workers 232

ALLEE, W. C. *see* FOREMAN, D.

BARTHOLOMEW, G. A. Mother-Young Relations and the Maturation of Pup Behaviour in the Alaska Fur Seal 163

BRADDOCK, J. C. & BRADDOCK, ZORA I. The Development of Nesting Behaviour in the Siamese Fighting Fish, *Betta splendens* 222

BRADDOCK, ZORA I. *see* BRADDOCK, J. C.

CLARK, R. B. The Tubicolous Habit and the Fighting Reactions of the Polychaete *Nereis pelagica* 85

DAVIS, D. E. Territorial Rank in Starlings 214

DELANY, M. J. Group Formation in the Thysanura 70

DEWITT, R. M., & SLOAN, W. C. Reproduction in *Physa pomilia* and *Helisoma duryi* .. 81

DOBSON, R. M. Preliminary Observations on the Behaviour of the Adult Wheat Bulb Fly, *Leptohylemyia coarctata* (Fall.) Using the "Field-Cage-Marking" Technique .. 76

DOWNING, B. M. *see* RANWELL, D. S.

DOYLE, G. & PRATT YULE, E. Grooming Activities and Freezing Behaviour in Relation to Emotionality in Albino Rats 18

EAYRS, J. T. The Status of the Thyroid Gland in Relation to the Development of the Nervous System 1

ELLIS, PEGGY E. Learning and Social Aggregation in Locust Hoppers 91

FOREMAN, D. & ALLEE, W. C. A Correlation Between Posture Stance and Outcome in Paired Contests of Domestic Hens 182

GOY, R. W. & JAKWAY, JACQUELINE S. The Inheritance of Patterns of Sexual Behaviour in Female Guinea Pigs 142

GRAUE, L. C. & PRATT, J. G. Directional Differences in Pigeon Homing in Sacramento, California, and Cedar Rapids, Iowa 201

GUITON, P. Socialisation and Imprinting in Brown Leghorn Chicks 26

HALE, E. B. *see* SCHEIN, M. W.

HINDE, R. A. Unitary Drives 130

HINDE, R. A. *see also* WARREN, ROSLYN P.

HINDE, R. A. & WARREN ROSLYN P. The Effect of Nest Building on Later Reproductive Behaviour in Domesticated Canaries 35

CONTENTS

HOLLINGSWORTH, M. J. Observations on the Sexual Behaviour of Intersexes in *Drosophila subobscura* 57

66 JAKWAY, JACQUELINE S. Inheritance of Patterns of Mating Behaviour in the Male Guinea Pig .. 150

232 JAKWAY, JACQUELINE S. *see also* GOY, R. W.

LARSSON, K. The Effect of Restraint upon Copulatory Behaviour in the Rat 23

MANNING, A. The Sexual Isolation Between *Drosophila melanogaster* and *Drosophila simulans* 60

163 PRATT, J. G. *see* GRAUE, L. C.

PRATT YULE, E. *see* DOYLE, G.

222 RANWELL, D. S. & DOWNING, B. M. Brent Goose (*Branta bernicla* (L.)) Winter Feeding Pattern and Zostera Resources at Scolt Head Island, Norfolk 42

SALZEN, E. A. & SLUCKIN, W. The Incidence of the Following Response and the Duration of,
85 Responsiveness in Domestic Fowl 172

214 SCHEIN, M. W. & HALE, E. B. The Effect of Early Social Experience on Male Sexual Behaviour
70 of Androgen Injected Turkeys 189

81 SLOAN, W. C. *see* DEWITT, R. M.

SLUCKIN, W. *see* SALZEN, E. A.

76 TROTTER, J. R. An Aid to Field Observation 107

WARREN, ROSLYN P. & HINDE, R. A. The Effect of Oestrogen and Progesterone on the Nest-Building of Domesticated Canaries 209

18 WARREN, ROSLYN P. *see also* HINDE, R. A.

BRIEF COMMUNICATIONS

1 CRESSWELL, E. A Cattle Rangemeter 244

91 DENNISTON, R. H. Escape and Avoidance Learning as a Function of Emotionality Level in the Wyoming Ground Squirrel—*Citellus richardsonii elegans* 241

182 RATNER, S. C. & RINGER, R. C. An Activity Cage and Recorder for Domestic Fowl .. 245

142 **PROCEEDINGS OF THE ASSOCIATION FOR THE STUDY OF ANIMAL BEHAVIOUR** 108, 248

201 **PROCEEDINGS OF THE SECTION OF ANIMAL BEHAVIOR AND SOCIOBIOLOGY**
26 **(ECOLOGICAL SOCIETY OF AMERICA AND THE AMERICAN SOCIETY OF ZOOLOGISTS)** 251

130 **BOOK REVIEWS**

BRITISH MEDICAL COUNCIL. British Medical Bulletin. Vol. 12, nos. 1 & 2; Vol. 13, no. 3 .. 116

BROWN, C. C. & SAUCER, R. T. Electronic Instrumentation for the Behavioural Sciences .. 121

35 BROWN, MARGARET E. The Physiology of Fishes 122

CROWCROFT, P. The Life of the Shrew 119
DOWDESWELL, W. H. Practical Animal Ecology 253
FARNSWORTH, P. R. & MCNEWMAR, Q. Annual Review of Psychology 123
FIELD, H. I. Diseases of Pigs 123
FOLK, G. E. Hamster Guide 119
FREE, J. B. & BUTLER, C. G. Bumblebees 253
GRAY, ANNIE P. Bird Hybrids. A Check List with Bibliography 118
HARRINGTON, M. (Ed.) Hypotensive Drugs 120
HELLER, H. (Ed.) The Neurohypophysis 121
HOAGLAND, H. (Ed.) Hormones, Brain Function and Behaviour—Proceedings of a Conference on Neuroendocrinology 119
JAMESON, W. The Wandering Albatross 124
JONES, I. C. & ECKSTEIN, P. Eds. Comparative Physiology of Reproduction. Memoirs of the Society for Endocrinology 121
KLUVER, H. Behaviour Mechanisms in Monkeys 123
NICHOLSON, E. M. Britain's Nature Reserves 117
PANTELOURIS, E. M. A Handbook of Animal Physiology 122
SCOTT, J. P. Aggression 120
SMITH, R. C. Guide to the Literature of the Zoological Sciences 122
TINBERGEN, N. Curious Naturalists 124
VAN TYNE, J. & BERGER, A. J. Fundamentals of Ornithology 253
VORONIN, L. G. Some Questions on the Comparative Physiology of Higher Nervous Activity .. 117
WORDEN, A. N. & LANE-PETTER, W. (Eds.) The UFAW Handbook on the Care and Management of Laboratory Animals 116
WRIGHT, W. D. The Measurement of Colour 124
YOUNG, J. Z. The Life of Mammals 123

This journal is copyright. It may not be reproduced by any means, in whole or in part, without permission. Applications with regard to reproduction should be addressed to the Publishers.

PRINTED IN GREAT BRITAIN
BY WELLINGTON PRINTERS
WELLINGTON, SOMERSET.

119
253
123
123
119
253
118
120
121
e
119
124

121
123
117
122
120
122
124
253
117

116
124
123

out
.